

## State Revolving Fund Loan Programs Drinking Water, Wastewater, Nonpoint Source

### PRELIMINARY DECISION OF CATEGORICAL EXCLUSION

TO ALL INTERESTED CITIZENS, ORGANIZATIONS AND GOVERNMENT AGENCIES:

**CITY OF ANGOLA  
Site Remediation Project  
SRF # WW09 23 76 02**

**Date: July 29, 2009**

**Target Project Approval Date: August 28, 2009**

Pursuant to IC 4-4-11, the State Revolving Fund (SRF) Loan Program has determined that the project described here and in the City of Angola Preliminary Engineering Report submitted to the SRF on March 13, 2009 will have no substantial negative environmental impact. Therefore, the SRF is issuing a preliminary decision of Categorical Exclusion from the requirements of substantive environmental review.

*How were environmental issues considered?*

The National Environmental Policy Act (NEPA) requires agencies disbursing Federal funds to include environmental factors in the decision making process. A summary of the project is attached for your review. The SRF's preliminary review has found that the proposed project does not require the preparation of either an EA or an EIS.

*Why is additional environmental review not required?*

Our environmental review has concluded that significant environmental impacts will not result from the proposed action.

*How do I submit comments?*

Comments can be submitted to:

Amy Henninger, Senior Environmental Manager  
SRF Programs  
317-232-6566; ahenning at ifa.in.gov

## **CATEGORICAL EXCLUSION**

### **I. PROJECT IDENTIFICATION**

Project Name and Address: Site Remediation Project  
City of Angola  
210 N. Public Square  
Angola, Indiana 46703

SRF Project Number: WW092376 02

Authorized Representative: The Honorable Richard M. Hickman, Mayor

### **II. PROJECT LOCATION**

The proposed project is located within the corporate limits of City of Angola in Steuben County. The project will be conducted on the former Dana Corporation Weatherhead Division facility which is located at 203 Weatherhead Street (Figure 1).

### **III. PROJECT NEED AND PURPOSE**

The Dana Corporation facility machined automotive parts from 1945 to 1997 at the project site. In 1993 Dana decided to close the facility and a Plant Closure Plan was developed by Chester Engineering to address the closure activities. Initial subsurface investigations identified the presence of chloroethenes and light nonaqueous-phase liquids in soil and groundwater. The facility entered the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program in 1995.

After further study of the contaminated site, the facility was separated into four major areas (North, East, South and Central) where contaminated soil and groundwater was detected.

The selected primary remedial approach for this project is the use of Electrical Resistive Heating (ERH). ERH couples a thermal heating technology with enhanced Soil Vapor Extraction (SVE). Heating of the soil and groundwater is accomplished by the application of a three-phase electrical current through numerous electrodes placed in the subsurface. Current flow between adjacent electrodes through the resistive soil heats the soil, which enhances the volatilization of VOCs. ERH can also mobilize viscous contaminants for extraction from a multiphase recovery well.

To complete the proposed remediation, a total of 194 ERH electrodes will be positioned through the East, South and Central contaminant source areas. In addition, 66 dual phase extraction wells will be installed between the electrodes and around the perimeter of the treatment zones to capture the mobilized contaminants in both the vapor and liquid phases (Figure 2). The combined extracted liquids and vapors will be treated using heat exchangers and a water knockout tank to physically separate the vapors and liquids.

Extracted vapors will be treated by either thermal oxidation or regenerated activated carbon absorption, while the groundwater will be treated by air stripping and granulated activated carbon, as necessary, before being discharged to the City of Angola's Publically Owned Treatment Works. Any mobilized nonaqueous-phase liquids will be temporarily stored on-site prior to disposal and recycling.

In the event concentrations of contaminated of concern exceed the proposed cleanup objectives following shutdown of the ERH system, secondary treatment of residual contaminants may be performed through In-situ bioremediation. In-situ bioremediation is a technology that encourages growth and reproduction of microorganisms to accelerate the biodegradation of organic constituents that are both dissolved in groundwater and adsorbed into the aquifer matrix.

#### IV. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

##### Estimated Project Cost Summary

##### Project Costs

Site Preparation and Design	\$ 132,250
Construction/ Implementation costs	3,235,364
In-Situ Bioremediation	399,300
Project Closeout costs	57,500
*ERH Operations & Maintenance costs	912,507
*Monitoring costs	763,269
<b>Total Estimated Project Cost</b>	<b>\$5,500,191</b>

\*Indicates costs are not eligible for SRF funding

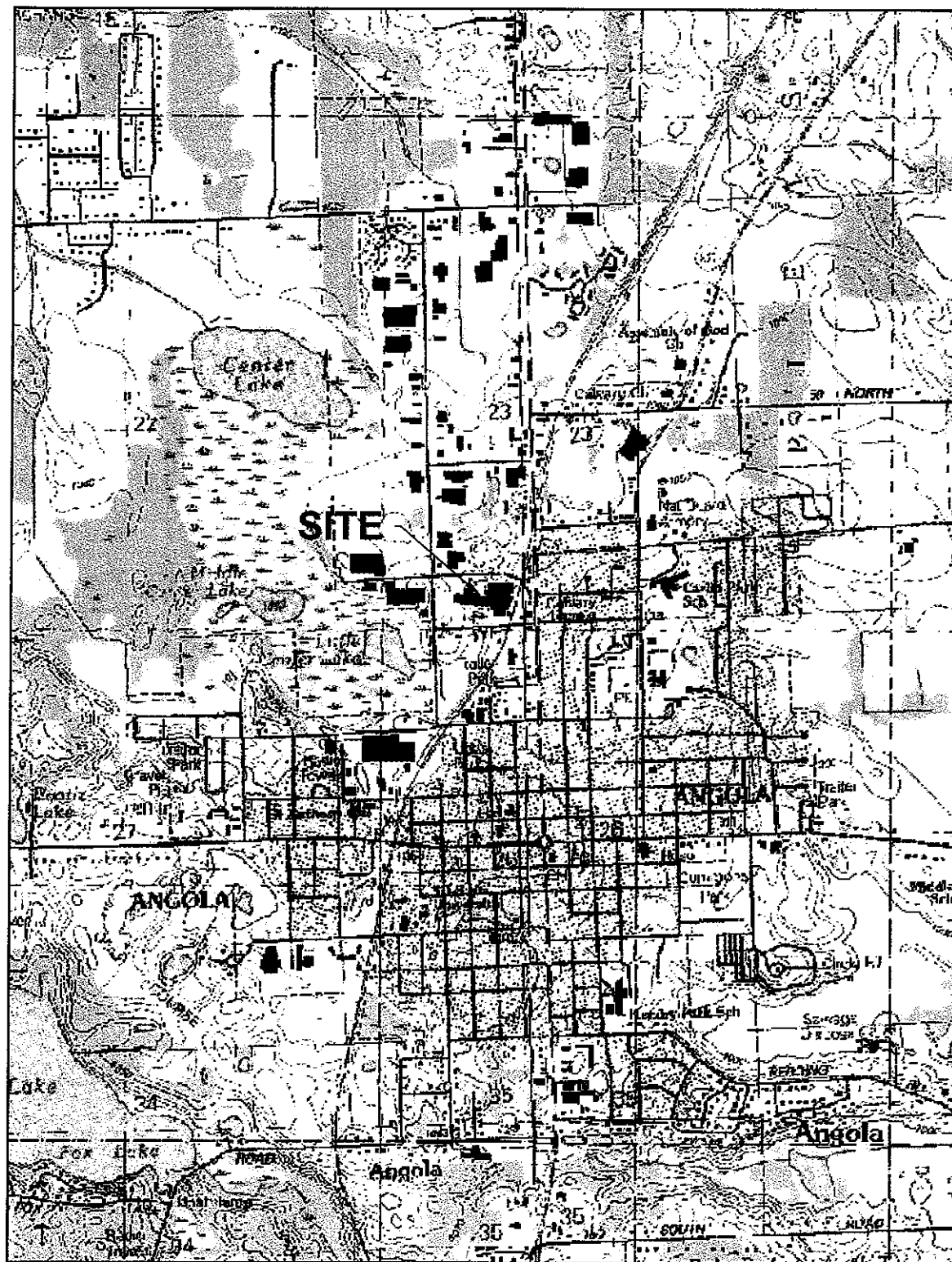
Angola will finance a portion of the Site Remediation project with a 20-year loan of approximately \$3,000,000 from the State Revolving Fund Loan Program (SRF) at an annual interest rate to be determined at the loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

#### V. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

The environmental impacts will be minimal. All project activities will take place on the former Dana Corporation Weatherhead facility which has been significantly disturbed by construction and industrial activities. The project will not affect historic sites, including sites on or eligible for listing on the National Register of Historic Places, according to the Pleasant Township Interim Report (Figure 8) and the historic sites information on the website of the Indiana Department of Natural Resources Division of Historic Preservation and Archaeology. The SRF's finding pursuant to Section 106 of the National Historic Preservation Act is: "*no historic properties affected.*"

#### VI. PUBLIC PARTICIPATION

A properly noticed public hearing was held at 7:00pm on April 6, 2009 at the City Hall, 210 North Public-Square to discuss the project's Preliminary Engineering Report. No negative comments on this project were voiced at the public hearing, and no written comments were submitted in the ten-day period following the hearing.



SCALE 1"= 2000'

0 1000' 2000'

REF: USGS 7.5 MINUTE SERIES  
INDIANA-ANGOLA WEST QUADRANGLE

Project: Former Dana Weatherhead Facility  
203 Weatherhead Street  
Angola, Indiana

Scale: 1"= 2000'	Drawn By: J.CLARK
Project Number: 13122	Approved By: BRW
Date: mARCH 13, 2009	File No. AngolaFigs

Figure 1

Site Location Map



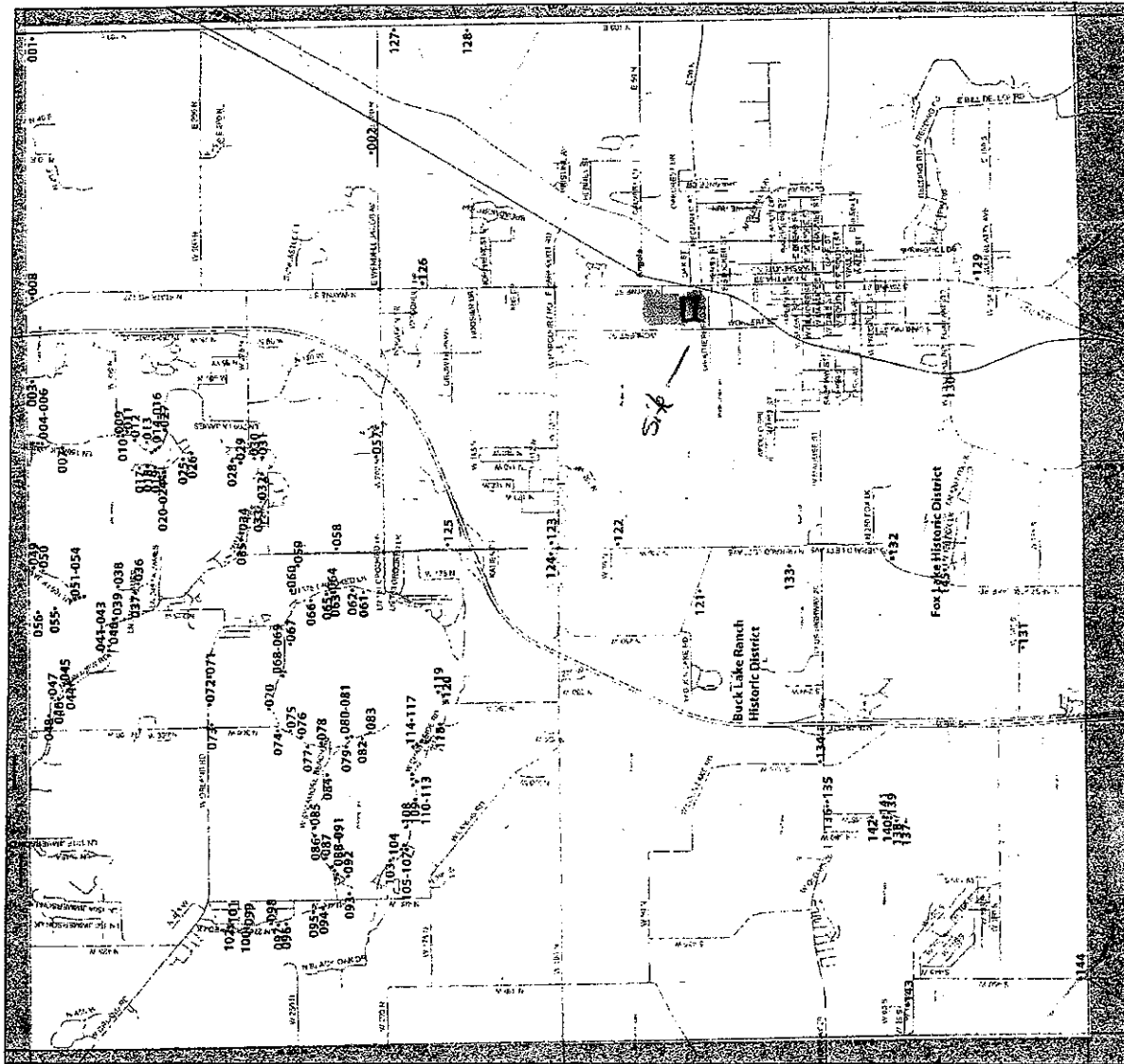




# Pleasant Township 25001-25145

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Note: Site is approximately 1/2 mile north of structure 001. Source did not provide a scale to the drawing.



Source: Steuben County Interim  
Report 2008



Project: Former Dana Weatherhead Facility  
203 Weatherhead Street  
Angola, Indiana

Drawn By: J. CLARK

Project Number: 13122

Approved By:

Date: March 10, 2009

File No. AngolaFigs

Figure 8

Pleasant Township 25001-25145